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FAK1 Human

Catalog #:PKPS-319

For research use only.

Description: Active Focal Adhesion Kinase full length Human Recombinant is a 146.7 kDa enzyme produced in Sf9 cells with an amino-terminal GST tag and purified via sequential chromatography. PTK2 is activated in-vitro by his tagged SRC.

Synonyms: Focal adhesion kinase 1, EC 2.7.10.2, FADK 1, pp125FAK, Protein-tyrosine kinase 2, FAK, FADK, FAK1.

Source: Baculovirus, SF9 insect cells.

Amino Acid Sequence:MAPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPRHNQTSL YK

Purity: Greater than 70% as determined by SDS-PAGE.

Formulation:
FADK is supplied in 50mM Tris pH-7.5, 150mM NaCl, 0.5mM EDTA, 0.02% Triton X-100, 2mM DTT, & 50% Glycerol.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
FAK is a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. At least four transcript variants encoding four different isoforms have been found for this gene, but the full-length natures of only two of them have been determined.

Biological Activity:
72 nmole of phosphate transferred to poly [Glu,Tyr] 4:1 substrate/minute/mg of total protein at 30°C. Activity determined at a final protein concentration of 4g/ml.

Storage:
Store at 4°C if entire vial will be used within 1-2 weeks. Store, frozen at -20°C to -80°C for longer periods of time. Avoid multiple freeze-thaw cycles.

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